CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/7886/CEMENT/2014-15 Date: 17.03.2015

TEST REPORT ON CEMENT

*CUSTOMER	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
*AGENCY	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
*NAME OF THE WORK	:	Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
REFERENCE	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
SAMPLE ID	:	Cement – Sample 3
SAMPLE RECEIVED ON	:	13.03.2015
PERIOD OF TESTING	:	13.03.2015 to 17.03.2015

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988(RA-2009)	27.50 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988(RA-2009)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988(RA-2009)	470 Minutes	Not More than 600 Minutes
3	Soundness by Le Chatelier Method	IS-4031 (Part-3) 1988(RA-2009)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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T-2377

Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/788b/SAND Gradation/2014-15 : 17.03.2015

TEST REPORT ON DETERMINATION GRADATION OF FINE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, BBMP, Bangalore.
* Name of Work	: Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Technical Reference	: IS : 2386 Part I - 1963 RA-2007
Sample ID	: Fine Aggregates - Sample 5
Sample Received on	: 13.03.2015
Date of Testing	: 17.03.2015

Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	92.35	90-100	90-100	90-100	95-100
2.36	78.81	60-95	75-100	85-100	95-100
1.18	60.12	30-70	55-90	75-100	90-100
600 Micron	38.39	15-34	35-59	60-79	80-100
300 Micron	13.54	5-20	8-30	12-40	15-50
150 Micron	3.72	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/7886/AGG/GR/2014-15 : 17.03.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, BBMP, Bangalore.
* Name of Work	: Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Technical Reference	: IS : 2386 Part I -1963 RA-2007
Sample ID	: Coarse Aggregates (40mm) - Sample 5
Sample Received on	: 13.03.2015
Date of Testing	: 17.03.2015

Total Wt. of Aggregates in gms= 10000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.25	95-100	85-100
20	40.12	30-70	0-20
10	12.53	10-35	0-5
4.75	2.87	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits.

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T-2377

Job No: CTCE/BBMP/W.No.02/KRIDL/CSR-03/788b/AGG/GR/2014-15 : 17.03.2015

TEST REPORT ON COARSE AGGREGATES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, BBMP, Bangalore.
* Name of Work	: Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Technical Reference	: IS : 2386 Part 1 - 1963 RA-2007
Sample ID	: Coarse Aggregates (20mm) - Sample 5
Sample Received on	: 13.03.2015
Date of Testing	: 17.03.2015

Total Wt. of Aggregates in gms= 5000

Is Sieve Size in mm	Cumulative Weight Passing in %	Spec.Limits as per IS 383-1970 (RA- 2007)	
		Graded	Single Sized
40	100	100	100
20	96.42	95-100	85-100
10	30.70	25-55	0-20
4.75	5.02	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No: CTCE/BBMP/WNo.02/KRIDL/STEEL/2014-15 19.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Name of the Work	:	Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Date of Test	:	19.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	8	0.40	511	554	13.10	O.K	O.K

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Job No : CTCE/BBMP/W.No 02/KRIDL/STEEL/2014-15 19.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Name of the Work	:	Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Date of Test	:	19.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	514	557	15.30	O.K	O.K

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CIVIL-TECH CONSULTANTS AND ENGINEERS

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Job No : CTCE/BBMP/W.No.62/KRIDL/STEEL/2014-15 19.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Name of the Work	:	Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Date of Test	:	19.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	12	0.89	517	560	13.45	O.K	O.K

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Job No: CTCE/BBMP/W.No.02/KRIDL/STEEL/2014-15 12.03.2015

TEST REPORT ON REINFORCEMENT STEEL

Client	:	Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, BBMP, Bangalore.
Name of the Work	:	Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No.02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	:	AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
Date of Test	:	12.03.2015
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.59	519	563	13.75	O.K	O.K

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Job No.: CTCE/BBMP/W.No.02/KRIDL/CSR-03/7886/CUBE/2014-15 25.04.2015

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	: Asst. Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
* Agency	: Technical Manager (West), KRIDL, BBMP, Bangalore.
* Name of the work	: Construction of SSM behind Govt. Primary School at Nagenahalli Village in Ward No. 02 of Yelahanka Sub Division, BBMP, Bangalore.
Reference	: AEE/BBMP/YSD/AE-2/2014-15 Dated: 13.03.2015
* Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
* Grade of Concrete	: M_{30}
Compressive Strength as on	: 28th day
Sample Received on	: 28.03.2015

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.03.2015	25.04.2015	8.138	479.5	21.31
2	28.03.2015	25.04.2015	8.253	513.5	22.82
3	28.03.2015	25.04.2015	8.382	493.5	21.93

* Information is furnished by the Customer/Representative

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